- 1 1. A method comprising:
- forming an arrayed waveguide grating having an
- 3 array of waveguides; and
- arranging a plurality of heaters to provide a
- 5 temperature gradient across said array of waveguides.
- 1 2. The method of claim 1 including forming an
- 2 arrayed waveguide grating as a planar light wave circuit.
- 1 3. The method of claim 2 including forming said
- 2 arrayed waveguide grating on the first side of said circuit
- 3 and forming said heaters on the opposite side of said
- 4 circuit.
- 1 4. The method of claim 3 including forming said
- 2 heaters in generally the same configuration as said
- 3 waveguides.
- 1 5. The method of claim 4 including positioning said
- 2 heaters on the opposite side of said circuit under said
- 3 waveguides and directly aligned beneath said array of
- 4 wavequides.
- 1 6. The method of claim 1 including enabling said
- 2 heaters to be selectively actuatable.

- 1 7. The method of claim 6 including providing laser
- 2 fuses for said heaters.
- 1 8. The method of claim 7 including opening some of
- 2 said fuses to select the heaters to be operated.
- 1 9. The method of claim 1 including positioning said
- 2 heaters to provide a desired temperature gradient across
- 3 said array of waveguides.
- 1 10. An arrayed waveguide grating comprising:
- 2 a support structure;
- an array of waveguides on one side of said
- 4 support structure; and
- at least two heaters positioned so as to provide
- 6 a temperature gradient across said array of waveguides.
- 1 11. The grating of claim 10 wherein said heaters are
- 2 on one side of said structure and said array of waveguides
- 3 is on the opposite side of said structure.
- 1 12. The grating of claim 11 wherein said heaters are
- 2 selectively actuatable.
- 1 13. The grating of claim 10 wherein said structure is
- 2 a planar light wave circuit.

- 1 14. The grating of claim 10 wherein said heaters are
- 2 directly below said array of waveguides.
- 1 15. The grating of claim 10 wherein said heaters are
- 2 arranged in generally the same configuration as said array
- 3 of waveguides.
- 1 16. The grating of claim 15 wherein less heaters are
- 2 provided than waveguides.
- 1 17. The grating of claim 10 wherein said heaters
- 2 include laser actuatable fuses.
- 1 18. An arrayed waveguide grating comprising:
- 2 a support structure;
- an array of waveguides; and
- an array of heaters arranged in substantially the
- 5 same configuration as said array of waveguides, said array
- of heaters being positioned on one side of said support
- 7 structure and said array of waveguides being positioned on
- 8 the opposite side of said support structure.
- 1 19. The grating of claim 18 wherein said heaters are
- 2 selectively actuatable.

- 1 20. The grating of claim 19 wherein said heaters
- 2 include actuatable fuses.
- 1 21. The grating of claim 20 wherein said fuses are
- 2 laser actuatable fuses.
- 1 22. The grating of claim 18 wherein said structure is
- 2 a planar light wave circuit.
- 1 23. The grating of claim 18 wherein said array of
- 2 heaters is arranged substantially directly below said array
- 3 of waveguides.
- 1 24. The grating of claim 23 wherein there are less
- 2 heaters than waveguides.